Naval Environmental Health Center
2004 Annual Workshop

NEHC
CLINICAL EPIDEMIOLOGY UPDATE

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Clinical Epidemiology

- History:
  - Sept ’03- Medical Informatics Training Course
  - - M11 charged with leading PopHealth
  - Nov ’03- Change in NEHC Clin EPI Leadership
  - Dec ’03- PopHealth Navigator Training
  - Jan ’04- TRICARE Conference
  - Feb ’04- BUMED Business Planning
  - Mar ’04- PopHealth Navigator Graphs

Clinical Epidemiology

- Population Health Navigator:
  - USN adopted MHS Population Health Portal
  - BUMED to administer accounts
  - NMIMC to provide technical assistance
  - NEHC/HSO's to provide implementation and program assistance
  - 500 accounts Navy-wide (2 types)
  - Implemented Jan '04, rolled over "old" accounts
  - Training currently via CMC, NEHC workshop, per request

Clinical Epidemiology

- Population Health Navigator:
  - Provides great foundation for fundamental PopHealth initiatives.
    - 6 preventive services, 10 diseases/conditions
    - All methodology included
    - Provides aggregate counts, prevalence reports, action lists
    - Provides HEDIS rates for comparison to benchmarks
    - Provides demographic information
    - Can download into EXCEL (ACCESS)
    - Able to analyze for clinic, provider, site of care, etc.
    - Can have large reports quedd
    - NOT a provider profiling tool! Instead, a tool for improving processes, data quality, healthcare provision.

Clinical Epidemiology

- Population Health Navigator:
  - Some limitations:
    - Only examines ENROLLED population
    - Some data integrity problems…
    - No flexibility to create custom queries, additional fields
    - For commands with more resources… not an asset
  - Future plans:
    - Will make some modules more robust
      - Add ICS for asthma, mmgms >35, lipids, depression meds
    - Intend to add
      - DM nephropathy, colon cancer screening, CHF

Clinical Epidemiology

- Population Health Navigator Graphs:
  - Supported by NMIMC, to be hosted on NMO
  - Intend to go “live” April ’04, announce via NEHC msg
  - Integrated into BUMED business plan
  - Provides a “context” for the current PHN/HEDIS data.
    - Graphs for Diabetes- A1C and LDL, Asthma Meds, Breast Cancer Screening, and Enrollment.
    - Allows comparisons between commands, against Navy averages, HEDIS benchmarks.
    - Ability to examine child DMIS’s
    - Reported quarterly (q3 months)
    - Goal: greater than HEDIS 90th percentile (red, yellow, green)

Clinical Epidemiology

- Population Health Navigator Graphs:
  - Some limitations:
    - Data “only” updated monthly…
    - Reliant upon PHN data accuracy
  - Future plans:
    - Increase reporting frequency to qMonth (push?)
    - More drop down menu options
    - Add run charts to chart progress over time
    - Expand to include other PHN metrics
    - Expand to include other (non-PHN) metrics?
    - Create a dashboard?

Clinical Epidemiology

- BUMED Business Plan:
  - Provides integration of PopHealth metrics for improved visibility
  - PH Navigator (and graphs) w/ embedded links
    - Automatically populate these fields
    - Frees up PHN executive accounts
  - At this point no enforcement or accountability piece, but may have significant external influence
    - SG's lineup, publishing of data

Clinical Epidemiology

- BUMED Business Plan:
  - Future Directions:
    - Have input for future metrics & dashboards
    - Anticipate need for PopHealth or Dz Mgmt resources
      - Diabetes and Asthma Action Teams
      - Modify Clinic Mgmt Course?
    - Anticipate role for Clinical EPI to assist commands in improving data quality, healthcare delivery, PopHealth initiatives, recovery of network expenses, AND documenting return on investment

Clinical Epidemiology

- Representation of the Community:
  - TRICARE Sr. Leadership Breakout Session
  - BUMED Business Plan
  - Evidence-Based Healthcare Advisory Board
  - Diabetes Action Team
  - Asthma Action Team
  - TMA PHOTO committee
  - Population Health Advisory “Council”
  - Various Taskers
    - Self Reporting Tools (Tri-Service)
    - IM/IT PopHealth Programs (TMA)
    - PopHealth Metrics (ASD)
    - IG PopHealth Inspections

Clinical Epidemiology

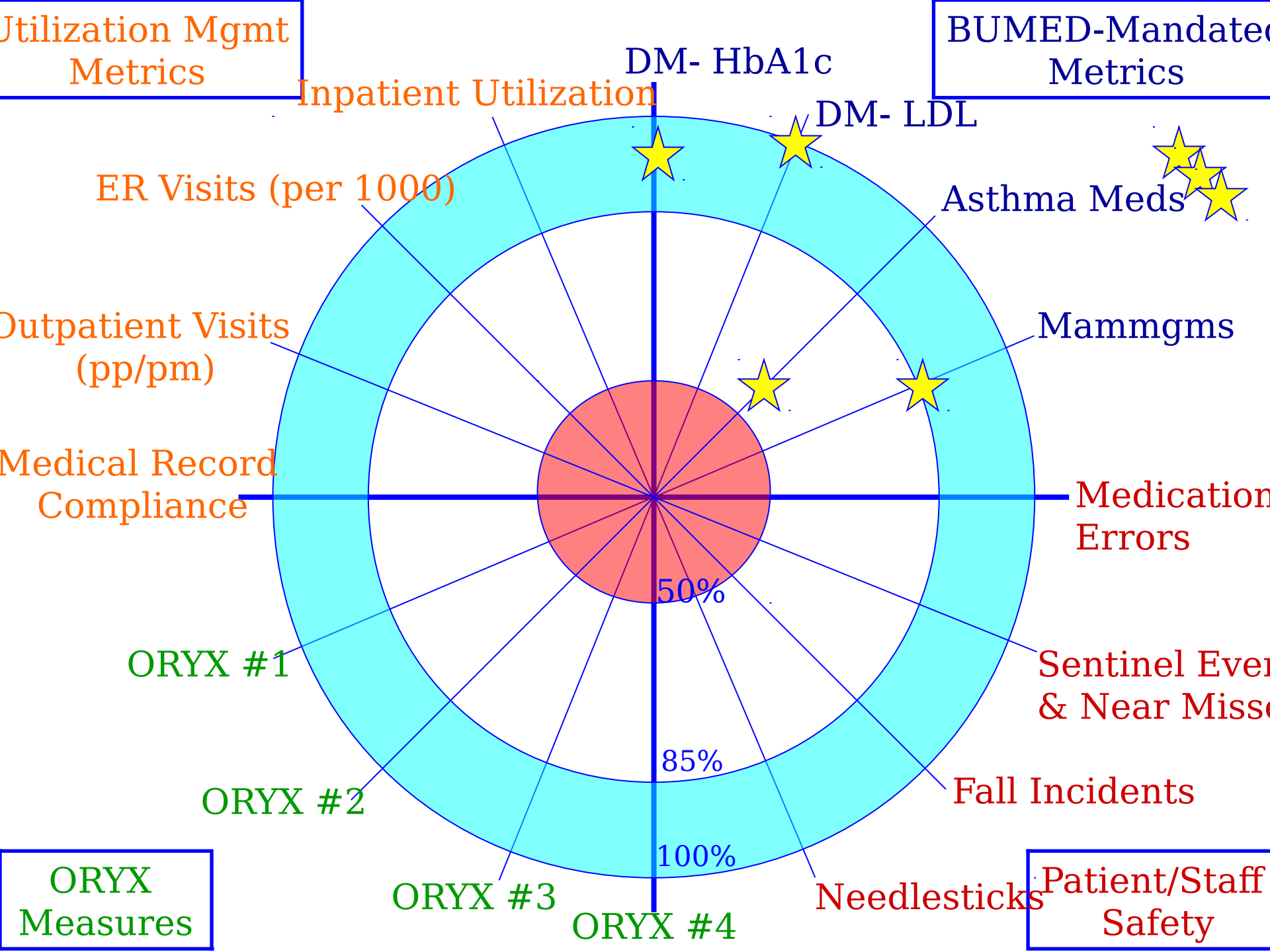
- Improving Communication:
  - Naval Medicine Online (tutorials available)
    - File Cabinets (share drives)
    - Forum (threaded discussion)
    - Surveys (CAPT Hooker's favorite!)
    - Webpage (development)
  - List Servers
    - Clinical EPI, PopHealth, Infection Control
  - Development of Infection Control Community
    - NMO, webpage resources, list servers, etc.

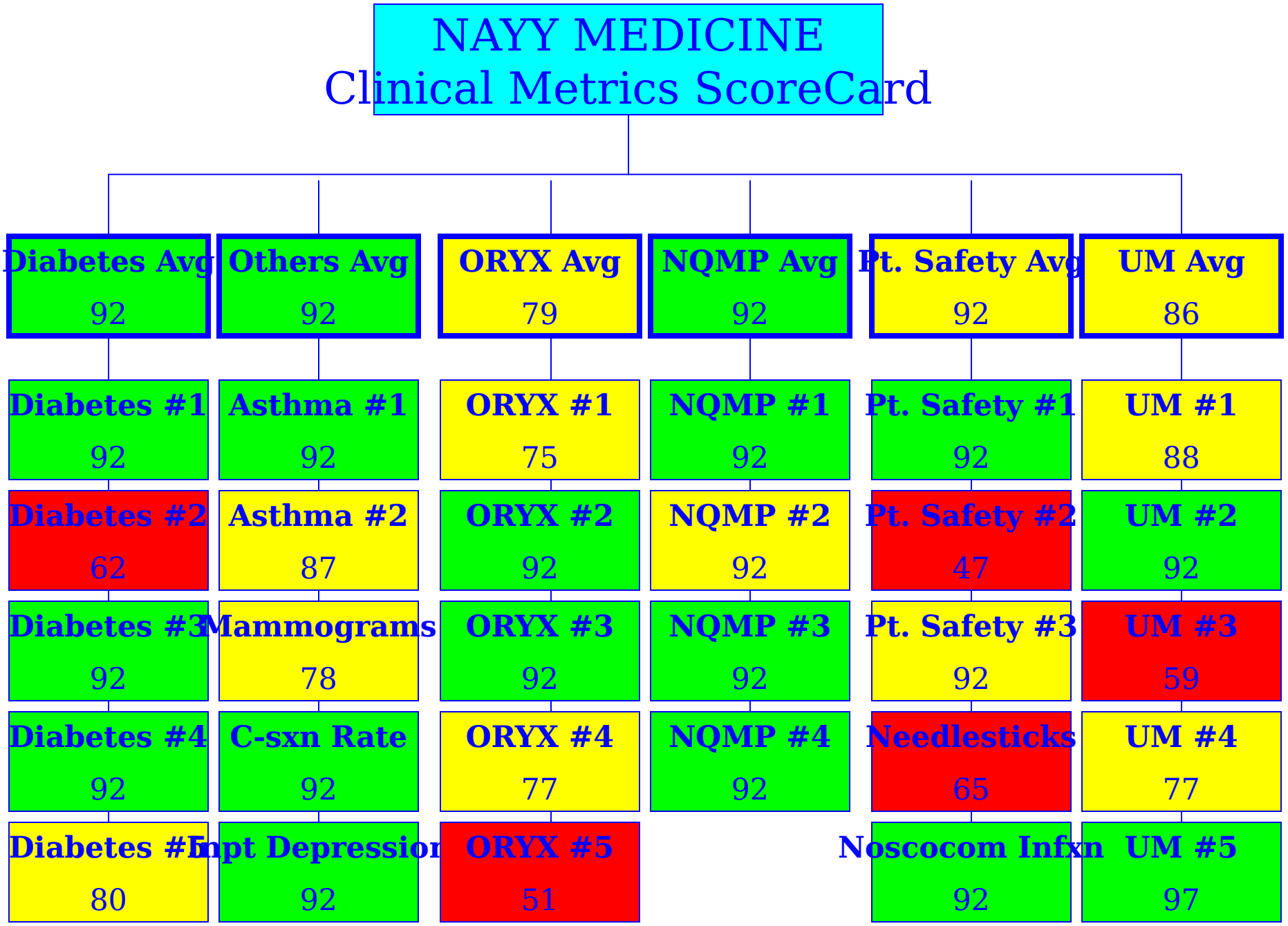
Clinical Epidemiology

- Continued Training:
  - Business Training
    - BBP, JCAHO, T-Nex
  - Infection Control
  - Medical Informatics
    - CACHE/Business Objects
    - M2 (Wisdom)
    - CHCS-II?

Clinical Epidemiology

- Future Directions:
  - Do we need a Clinical EPI Advisory Board?
  - What to include on the webpage?
  - Training
    - What? Where? When?
  - Special Projects
    - Diabetes Project
    - Dashboards?


Utilization Mgmt Metrics
BUMED-Mandated Metrics
DM- HbA1c
Inpatient Utilization
DM- LDL
ER Visits (per 1000)
Asthma Meds
Outpatient Visits (pp/pm)
Mammgms
Medical Record Compliance
Medication Errors
50%
ORYX #1
Sentinel Even
& Near Misse
85%
ORYX #2
Fall Incidents
100%
ORYX #3
Needlesticks
ORYX #4
ORYX Measures
Patient/Staff Safety


NAYY MEDICINE
Clinical Metrics ScoreCard
Diabetes Avg
92
Others Avg
92
ORYX Avg
79
NQMP Avg
92
Pt. Safety Avg
92
UM Avg
86
Diabetes #1
92
Asthma #1
92
ORYX #1
75
NQMP #1
92
Pt. Safety #1
92
UM #1
88
Diabetes #2
62
Asthma #2
87
ORYX #2
92
NQMP #2
92
Pt. Safety #2
47
UM #2
92
Diabetes #3
92
Mammograms
78
ORYX #3
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NQMP #3
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Pt. Safety #3
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UM #3
59
Diabetes #4
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C-sxn Rate
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ORYX #4
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NQMP #4
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Needlesticks
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UM #4
77
Diabetes #5
80
Inpt Depression
92
ORYX #5
51
Noscocom Infxn
92
UM #5
97